

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800020-6

29

**Fermentation in tanning liquors.** D. MICHLIN, P. KOPREJOVICH AND A. SIMSKAYA  
*Vestnik Kozhevennoi Prom. Torgov.* 1929, 125-7; *Chem. Zentr.* 1931, I, 200-1. The effects of  $\text{CH}_3\text{O}$ , NaF and  $\text{NaH}_4$  on the fermentation of willow bark liquor ( $3^{\circ} \text{ Bé.}$ ) in the presence of skins were studied. If no antiseptic was added, the volatile and non-volatile acids increased, but the  $p_{\text{H}}$  remained almost unchanged because of the buffer effect of the proteins of the skin. 0.007%  $\text{CH}_3\text{O}$  stopped fermentation. The acid content did not change, and the skins were well tanned. 0.1% NaF stopped the formation of volatile acids, and 0.01%  $\text{NaH}_4$  prevented the formation of non-volatile acids. These reagents should therefore be used together. The influence of different chemicals in the absence of skins was also studied. Willow liquor of  $3^{\circ} \text{ Bé.}$  and  $p_{\text{H}} 2.9$  was brought to  $p_{\text{H}} 5.5$  with  $\text{Na}_2\text{CO}_3$  and  $\text{NaHCO}_3$ . The  $p_{\text{H}}$  decreased to 4.4 after 6 days. Then it remained almost const. for 4 weeks because of the buffer action of the carbonates. By addn. of 0.5%  $\text{NaHSO}_4$   $p_{\text{H}} 5.6$  was reached. It decreases to 5.2 after 5 days, is const. for 2 weeks, and increases to 5.8 after 4 weeks. If the  $p_{\text{H}}$  is brought to 4.0 with a mixt. of sulfite and bisulfite, it remains const. 4 weeks. 0.1% NaF + 0.1%  $\text{CaCl}_2$  buffers the liquor to  $p_{\text{H}} 5.7$ -5.8. 0.007%  $\text{CH}_3\text{O}$  + 0.1% NaF to 5.5. 0.25% bisulfite + 0.1% NaF to 5.2-5.7. These 3 values do not change for 2 weeks.

ALFRED BURGER

ASIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

Oxidizing enzymes of the vegetable tanning materials. D. MICHLIN AND A. Kornilovich. *Vestnik Khimicheskoy Prom. Torgov.* 1929, 6(4). *Chem. Zentr.* 1931, I, 1120-1; cf. *C. A.* 25, 5445. Peroxidase (I) was isolated from pine and willow barks. While no "complete oxidase" was detected by the malic acid reaction I was obtained as a colorless light ppt. One l liquor yields 0.45 g I. It contains 3% ash, no Fe, is sol in water, and can be detd by the method of Bach. The dialyzed ppt. loses 10% of its activity. The optimum  $\mu_H$  is 3.8-5.0; the activity decreases toward the neutral point and disappears at  $\mu_H$  7.8. It is unstable at elevated temp. It cannot be reactivated. Hg<sup>2+</sup> diminishes the activity of I to 1/2. HCN (1:10,000) reduces it to 1/4; at a HCN concn. of 1:1000 the activity of the enzyme disappears. HgS (1:100,000) checks the activity, but at a concn. of  $1 \times 10^{-4}$  it reaches its original value. ALFRED BYGARD

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The present state of the chemistry of biological oxidation. D. MICHLIN, V. Frank  
Kosherensat Prom. Torgor. 1929, 82 3. Chem. Zentr. 1930, II, 3870. A general discussion, including the enzymes involved in biol. oxidation. ALFRED BURGK

ASMLA METALLURICAL LITERATURE CLASSIFICATION

1150-394129  
VOLUME ONE 1945

BLAZEJ, A.; MICHLIK, I.

Polarographic determination of methionine in wool and hair keratins.  
Kozarstvi 15 no.2:59-63 F '65.

1, Chair of Leather Chemical Technology of the Chemical Faculty  
of the Slovak Higher School of Technology, Bratislava.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800020-6

MICHLIK, I.; BLAZEJ, A.

A study of keratin immunization. Pt.2. Kozaravci M et al.  
333-336 N '64.

1. Chair of Leather Chemical Technology of the Faculty of Chemistry,  
Higher School of Technology, Bratislava.

BLAZEJ, A.; MICHLIK, I.

Study of keratin immunization. Pt. 1. Kozarstvi 14 no. 5:  
130-134 My '64.

1. Chair of Leather Chemical Technology, Faculty of Chemistry,  
Bratislava.

MICHLEWSKI, Edward, mgr., inz.

Some notes on the necessity of standardizing hydrophones. Normalizacja  
29 no.9:413-415 '61.

(Pressure vessels)

MICHLER, I.

Rak Channel of the Planina Cave. p. 73; Slovenska akademija znanosti in umetnosti. Institut za raziskovanje krasa. POROCILA. ACTA CARSOLOGICA. Ljubljana; Vol. 1, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,  
Vol. 5, No. 12, December 1956.

L 34430-66 I/EWP(t)/ETI IJP(c) JD  
ACC NR AP6026198

SOURCE CODE: CZ/0034/65/000/011/0789/0795

AUTHOR: Dedek, Vladimir (Engineer); Michl, Vladimir--Mikhl', V. (Engineer);  
Sliva, Milan (Engineer)

19  
B

ORG: VZKG, n.p., Ostrava

TITLE: Reheating conditions of process and intermediate annealing and their effect  
on the deep-drawing properties of low-carbon strip steels

SOURCE: Hutnicke listy, no. 11, 1965, 789-795

TOPIC TAGS: low carbon steel, annealing, cold rolling, metal drawing

ABSTRACT: The article reports on an investigation of cold rolled annealed deep-drawing strip steels regarding the feasibility of improving their structural and plastic properties by arrangement of the reheating conditions in the final process annealing as well as by intermediate annealing during the cold rolling. Orig. art. has: 2 figures and 8 tables. [Based on authors' Eng. abstract] [JPRS: 33,732]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

Card 1/1 MJS

UDC: 621.785.3: 669.14.018.26

0916

7746

Z/057/63/000/002/001/001  
E073/E335

Brittleness and coarseness ....

deoxidized or were overheated to 1550 °C retained a certain quantity of oxygen, which lowered the quality of the semi-finished products, particularly the cold-forming ability, to an extent that failures will occur. Much care has to be taken during intermediate annealing in an oxidizing atmosphere since extensive oxidation and intercrystalline penetration of oxygen will have a detrimental effect. Extensive use of vacuum-smelting and casting is recommended. There are 12 figures and 4 tables.

ASSOCIATION: Kovohutě G. Klimenta, Rokycany  
(G. Klimenta Metal Works, Rokycany)

Card 3/3

Z/057/63/000/002/001/001  
E073/E335

## Brittleness and coarseness . . .

duration of annealing prior to hot-forming (16 and 17 hours, respectively, without a protective atmosphere, at 1150 to 1200 °C); normal and high reduction rates during cold rolling; pickling and use of inhibitors during pickling. Deoxidation was by 0.05 kg Mn, 0.1 kg Si, 0.20 kg Al, 0.05 kg C and 0.1 kg Mg. 310 mm diameter cylinders were cast from each heat, the skin removed and the cylinders heated in a resistance furnace (for durations and temperatures as mentioned above). After heating the solutions and temperatures increased rates of reduction. Bright annealing was carried out in a Grunewald-type furnace at 720 °C for 4.5 hours. Pickling was effected in a 3:1:10 solution of  $\text{HNO}_3 + \text{HCl} + \text{H}_2\text{O}$  at 60 °C until the surface was completely clean. In one case, 0.5 wt.% of  $\text{CuCl}_2$  was added as an inhibitor. The hydrogen content of 2.5 mm thick strip did not change as a result of pickling, which indicated that the pickling duration and use of an inhibitor had no influence on grain-coarseness. Main attention should be paid to the deoxidation and casting to prevent formation of an intercrystalline phase. During hot-forming Ni + NiO eutectic concentrates and stabilizes along the grain boundaries; heats that were not satisfactorily

Card 2/3

Z/057/63/000/002/001/001  
E073/E335

AUTHORS: Romaniak, Ladislav, Engineer and Michl, Vladimír  
TITLE: Brittleness and coarseness of grain of nickel semi-finished products for the electronic industry

PERIODICAL: Hutnik, no. 2, 1963, 73 - 81

TEXT: In 1958, a relatively high percentage of semi-finished products had to be scrapped due to brittleness or grain-coarseness. The situation improved by 1960. Brittle strips can be made ductile by heating for 15 - 20 min at 900 °C, followed by sudden water-quenching. Such treatment does not eliminate fully the inter-crystalline phase or the grain-coarseness in thin Ni strip. It is considerably more difficult to eliminate grain-coarseness than to eliminate brittleness, particularly since grain-coarseness appears predominantly during forming the final thickness of 0.1 to 0.2 mm. Grain-coarseness is due not only to the intercrystalline phase but also to unfavourable rates of reduction or annealing conditions. The influence of the following was investigated on material produced from 12 heats (with 240 kg charges) in an open, high-frequency furnace with an acidic lining from pure raw materials:

Card 1/3

MICHL, U.

RECORDED  
Professor Hans Hennicke, "Liste der bestimmten und unbestimmten Arten der  
Proterostomia (Leptostomia) aus dem Bereich des Tropischen Afrikas", p. 10.  
(Hennicke List. Brno, 1954, Vol. 9, no. 2, Sept. 1954)  
(Hennicke List. Brno, 1954, Vol. 9, no. 2, Sept. 1954)  
See: "Handbuch der Tierwissenschaften", Band 10, Teil 1, 1954, p. 10.  
Dana 1928, Vol. 1.

EXCERPTA MEDICA Sec 11 Vol 9/4 O.R.L. Apr 56

816. MICH'L R. "Prevence otolaryngologická v terénu. Otolaryngological prevention in the field ČSÚ. OTOLARYNG. (Praha) 1954, 3/2  
(72-76)

Otolaryngology has its place in modern preventive medicine. A plan is outlined for the performance of periodical otolaryngological examinations of infants in baby clinics, of children in kindergartens and schools, and of workers in clinics of industrial plants and health centres. Examinations will be carried out by the team of the otolaryngological department of the central hospital of the area and by specially trained general practitioners. Grushka - Jerusalem (XVII, II

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MARES, Emil, inz.; MICHL, Premysl, PhMr.

Preparation of synthetic fat for pharmaceutical purposes.  
Prum potravin 14 no.11:603-606 N°63.

1. Vyzkumný ustav tukového prumyslu, Usti nad Labem (for  
Mares). 2. Leciva, n.p., Dolni Mecholüpy (for Michl).

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MICHL, M.

National Enterprises of the Ministry of Food compete for the Red  
Banners of the Government, of the Ministry of Food, and of the Central  
Committee of the Employees of the Food Industry of the Revolutionary  
Trade Union Movement. p.57

PRUMYSL POTRAVIN. (Ministerstvo potravinskeho prumyslu) Praha

Vol. 6 no. 2, 1955

Jan. 1956

Vol. 5 No. 1

East European Accessions List

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800020-6

MICHL, Ladislav

New mixer for the food industry. Prum potravin 13 no.12;646-647  
D '62.

1. Orlické strojirny, n.p., Skuhrov nad Behou.

CZECHOSLOVAKIA

MICHL, J., BAUDYSOVA, M., KOVARIK, J; Physiological Institute,  
Czechoslovak Academy of Sciences (Fisiologicky Ustav CSAV),  
Prague.

"Changes in Respiration of Cultivated Cells Adapted to Cold."  
Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 106-107

Abstract: Cells adapted to cold use more oxygen than controls.  
they are also more inhibited in their growth by the presence  
of cyanide. It appears that cells adapted to cold have a more  
active oxidative ability to decompose glucose. 1 Figure.  
1 Czech reference. Submitted at "16 Days of Physiology" at  
Kosice, 29 Sep 65.

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CZECHOSLOVAKIA

MICHL, J; ZAHRADNIK, R

Institute of Physical Chemistry, Czechoslovak Academy  
of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications  
No 5, May 1966, pp 2259-2265

"electronic structure of non-alternant hydrocarbons, their  
analogues and derivatives. Part 3: A note on the electronic  
spectrum of acenaphthylene."

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(CZECHOSLOVAKIA

ZAHRAJÍK, M.; MICHL, J.; KOPECKI, J.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences  
(for ?); 2. Institute of Industrial Hygiene and Occupational Diseases,  
Prague (for ?)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb  
1966, pp 649-648.

"Electronic structure of non-alternant hydrocarbons, their analogues and  
derivatives. Part 5: Indene-like hydrocarbons."

ZAHRADNIK, R.; MICHL, J.

Electronic structure of non-alternant hydrocarbons, their analogues and derivatives; introductory remarks. Coll Cz Chem 30 no.2:515-536 F '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague. Submitted September 4, 1964 and June 18, 1964.

MICHL, J.

Nutrition of neoplastic and normal cells in tissue culture.  
Neoplasma (Bratisl.) 12 no.4:449-452 '65.

1. Laboratory of Tissue Culture, Institute of Physiology,  
Czechoslovak Academy of Sciences, Prague, Czechoslovakia.  
Submitted January 16, 1965.

MICHL, J.; REZACOVA, D.

Some characteristics of mouse ascitic Krebs-2 tumour cells grown  
in submerged cultures. Neoplasma (Bratisl.) 12 no.4:407-415 '65.

1. Tissue Culture Department, Institute of Sera and Vaccines,  
Prague, Czechoslovakia. Submitted September 19, 1964.

ZAPNATK, R.; KICHLI, J.; KOCHWAJ, M.

Table on quantum mechanical calculations. 3. Calculations from the Hartree-Fock  
principle.

I. Institute of Physical Chemistry of the Czechoslovak Academy of  
Sciences, Prague.

ZAHRADNIK, R.; MICHL, J.; KOUTSKY, J.

Tables of quantum chemical data. Pt.2. Coll. Cz chem 29 no.8:  
1932-1944 Ag '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of  
Sciences, Prague.

MACEK, Milan; MICHL, Jiri

Contribution to cultivation of human diploid cells. Acta Univ.  
Carol. [ned.] (Praha) 10 no.78519-539 '64

1. Ustav vyzkumu vyvoje dítěte fakulty dětského lékařství  
University Karlovy v Praze (ředitel prof. MUDr. J. Hodaček,  
DrSc.) a Ustav seř a rekonvalescencního řízení, odbor těhotových kultur  
(vedoucí MUDr. J. Jocharecký, CSc.).

MACEK, Milan; MICHL, Jiri; HOSTOMSKA, Lidia; KUCEROVA, Milena; HEDICKA, Radim; CERNY, Milos. Tech., spoluautor: HAJKOVA, H.; autor: ...

Shereshevskii - Turner syndrome in the light of new clinical and cytological data. Acta Univ. Carol. [med.] (Praha) 10 no.1:87-105 '64

I. Ustav vyzkumu vyvoje dítěte fakulty, dětského lekarství a university Karlovy v Praze (reditel: prof. MUDr. J. Houštek, Dr Sc.); Ustav ser a očkovacích latek (reditel: MUDr. J. Johanovsky, CSc.); II. dětská klinika fakulty dětského lekarství University Karlovy v Praze (prednosta: prof. MUDr. J. Houštek, Dr Sc.) a Ustav obecné biologie fakulty všeobecného lekarství University Karlovy v Praze (reditel: prof. MUDr. B. Sekla, Dr Sc.).

SLONIM, D.; MARES, I.; DREVO, M.; CINNEROVA, O.; MICHL, J.; technical assistance:  
HOLATOVA, M.; KOUDELKOVA, M.; KRAUSOVA, V.; SKUBAL, J.; ZLABOVA, Z.

Some experiences with the preparation of inactivated poliomyelitis  
vaccine in Czechoslovakia. IV. The preparation of the vaccine. Acta  
virol. Engl. Ed. Praha 5 no. 3: 178-187 My '61.

1. Institute of Sera and Vaccines, Prague.

(POLIOMYELITIS immunol)

SLONIM, Dimitrij; MICHL, Jiri; CINNEROVA, Olga; MARES, Ivo; DREVO, Milan;  
za spoluprace: STEPANOVA, E.; HAJKOVE, H.; JARKOVE, A.

Certain experiences with the preparation of the inactivated polio-  
myelitis vaccine in CSR. II. Preparation of the medium. Cesk.  
epidem.mikrob.imun. 9 no.2:111-121 Mr '60.

(POLIOMYELITIS immunol.)  
(VACCINES)

MICHL. J.

A protein growth factor for HeLa cells. Neoplasma, Bratisl. 7 no.1  
suppl:75-78 '60.

(PROTEINS)  
(TISSUE CULTURE)  
(NEOPLASMS)

SLONIM, Dimitrij; MICHL, Jiri; MARES, Ivo; CINNEROVA, Olga; DREVO, Milan

Certain experiences with the preparation of inactivated poliomyelitis vaccine in Czechoslovakia. I. Glass, rubber, stainless material. Cesk. epidem. mikrob. imun. 8 no.5:289-298 Sept 59.

1. Ustatv ser a ockovacich latek v Praze.  
(POLIOMYELITIS, immunol.) (VACCINES)

MICH, Jiri

Prospective solution of suburban railroad transportation. Zel dop  
tech 12 no. 6:147-148 '64.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800020-6

MICHL, Jiri; SPISEK, Lubomir

A new graphic chart of railway transportation. Zel dop tech  
10 no.4:99-100 '62.

MICHL, Jaroslav; KOZEHUBA, Zdenek

Some influences on shoemaking with prepared soles. Kozarstvi 13  
no.8:247-250 Ag '63.

1. Vyzkumny ustav kozedelny, Gottwaldov.

VERIGIN, P.; KOLIBABCHUK,A., nauchnyy sotrudnik,; MICHKOVSKIY, L.

Exoerience of combined units in transporting sugar beets. Avt.  
transp. 36 no. 7:10-11 Jl '58. (MIRA 11:8)

1. Upravlyayushchiy Vinnitskim oblastotrestom(for Verigin).
2. Nauchno-issledovatel'skiy institut, Ukrdortrans (for Kolibabchuk).
3. Komandir Kalinovskoy avtoroty (for Michkovskiy).  
(Sugar beets--Harvesting)  
(Transportation, Automotive)

L 47078-66

ACC NR: AP6029044

teristics of the compressor, the rotor blades are made with leading and trailing edges of the blades curved to the side, in direction opposite to the rotor rotation. The profiles in meridional cylindrical cross sections are made in conformance to the arc of the circumference (see Fig. 1). Orig. art. has: 1 figure. [AV]

SUB CODE: 21/ SUBM DATE: 15May64/ ATD PRESS:

L 47078-66 EWT(1)/ENP(f)/T-2 WH  
ACC NR: AP6029044

SOURCE CODE: UR/0413/66/000/014/0060/0060

INVENTOR: Ishutinov, D. V.; Michkovskiy, B. A.

ORG: none

TITLE: Centrifugal compressor rotor. Class 27, No. 183877 [announced by the Uralsk Turbomotor Plant (Ural'skiy turbomotorniy zavod)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 60

TOPIC TAGS: centrifugal compressor, compressor rotor, rotor blade, compressor design

ABSTRACT: The proposed centrifugal compressor contains radial blades and an axial inlet guide vanes. In order to improve the aerodynamic charac-

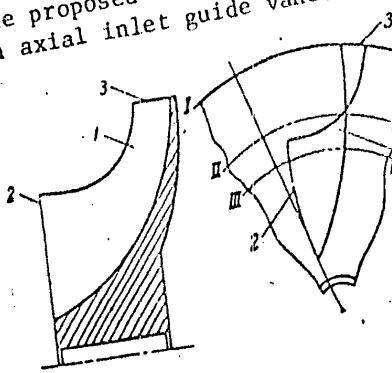


Fig. 1. Compressor rotor

1 - Blade; 2 - leading edge of the blade; I-I,  
3 - trailing edge of the blade; III-III - meridional cylindric cross  
section of the rotor.

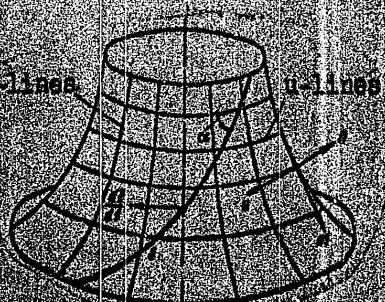
UDC: 621.515.1-253.51

Card 1/2

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REF ID: A65114C71

ENCLOSURE: 01 C



REF ID: A65200877

where  $\beta_1$  is the geometrical angle of the blade. Expressions are then derived  
characterizing the compressor.

$$\frac{P_1}{P_{10}} = \left( \frac{Q_1}{Q_{MAX}} \right)^{\frac{1}{1-\alpha}}$$

where  $\alpha$  is the degree of rise in the total pressure and  $Q_{MAX}$  is the maximum  
possible flow rate through section 1. Orig. am. has 20 formulas and 6 figures.

ASSOCIATION: Uralskiy Turbomachinery Naukovo-Prakticheskoye Upravleniye (Ural Turbine Factory)

SOT-17000: 00

EICL1: 01

SUB CODE: PL, ME

NO 1377: 000

OTHER: 001

Grid 574

REF ID: A65618874  
 APPROXIMATE ANGLE OF ATTACHMENT

The chordwise angle  $\alpha$  is defined geometrically in Fig. 1 on the figure. The governing equations for the profile calculation are obtained in the same manner as the previous section.

CHORD LENGTH

$$L = \lambda \exp \left[ \frac{\alpha n}{R} \right]$$

where  $\lambda = c/c_0$

$$\tan \alpha = \frac{c}{L} = \frac{c}{\lambda \exp(\alpha n/R)}$$

Streamline conservation and

$$\frac{dP}{dx} = \frac{(1 - M \cos \alpha)}{(1 + M \cos \alpha)}$$

$$v = u/c, M = \frac{u}{c}$$

$$\frac{du}{dx} = \frac{c}{(1 + M^2)^{1/2}}$$

Assuming chordwise velocity  $U$  to be constant, and neglecting the above formulae, the flow properties distributions are calculated along the mean streamline. The blade profiles are then calculated from the angle distribution

$$\Delta \theta(m, n) = 0, \quad \theta = 0$$

RESULTS

		WV/ENP(1)/N(1)/EMT(1)/T-1/EHP(x)/EIC(u)
REF ID: A9513013071		UR/0096/65/000/000/0059/0061 621,51,533,6,001,24
NAME	STOJANOVIC, D. J. (Eng. name) [REDACTED]	Montgomery, B. A. (Engineer)
ADDRESS	10075 RUE ST. CYRILLE ET MÉTHODE, 75018 PARIS, FRANCE	DYNAMIC CALCULATION AND PROFILING OF IMPELLERS IN CENTRIFUGAL COMPRESSORS
PUBLICATION NUMBER	KOMPRESORI, no. 8, 1965, 59-63	1/2
ABSTRACT	Part I: Dynamic calculation, certain characteristics of dynamic calculation of centrifugal compressor, blade profile, gas flow, flow distribution, calculation of impeller, calculation of impeller profile.	Part II: Calculation of impeller profile.
TEXT	Abstract: An analytical investigation was made of the profiling details of centrifugal compressor impeller. The calculation method consists of the following steps: the shape of the main streamline is calculated so as to divide the flow area into two equal parts; along this line are distributed all the flow parameters and it is assumed that the absolute acceleration vector undergoes a minimum possible change of magnitude as well as in direction. On the basis of equations of motion and conservation of mass, the shape is determined of a neighboring streamline which is situated at the nearest elementary distance $\Delta n$ . The flow parameters are calculated along this streamline and the impeller contour is subsequently calculated.	

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MICHKOVITCH, V. V.

Michkovitch, V. V. Radenillustrator graphique. Nipko  
Ald. Novka, Novara, Padova, AB, L., Brux, 3, 5-10  
(1953). (Serbo-Croatian - French summary)

V. V. MICKOVITCH

"A Method of Determining the Instant of Contact in the Event of a Solar Eclipse. p. 193. (BULLETIN, SCIENCES MATHEMATIQUES. Vol. 5, No. 1, 1952  
Beograd, Yugoslavia)

SO: Monthly Lists of East European Accessions, L.C., Vol. 2, No. 11  
Nov. 1953, Uncl.

MICHKOV, Valentin Andreyevich; ABRAMOVICH, D.I., doktor geogr.  
mnuk, atv. red.; MITSARINSKI, A.A., red.

[Kamen' Hydroelectric Power Station on the Ob' River and  
the irrigation of the Kulunda Steppe] Kamenskaia GES na  
Obi i oroshenie Kulundy. Novosibirsk, Red.-izd. otdel  
Sibirskego otd-nija AN SSSR, 1964. 58 p. (MIRA 17:8)

MICHKOV, V.A., dotsent

New layouts of shaft bottoms for large-tonnage coal mines. Izv.  
vys. ucheb. zav.; gor. zhur. 5 no.10:39-44 '62. (MIRA 15:11)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana  
kafedroy razrabotki plastovykh mestorozhdeniy Sverdlovskogo gornogo  
instituta.

(Coal mines and mining)

PONYUKOV, V.A., inzh.; MICHKOV, V.A., dotsent

Overall mechanization of the mining of rock salt. Izv. vys. ucheb.  
zav.; gor. zhur. ? no. 5; 3-7 '64.  
(MIRA 17:12)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrusheva.  
Rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy.

MICHKOV, V. A.

191T72

USSR/Hydrology - Piling Foundations Oct 51

"Pile-Tubing Foundation on Rocky Material," V. A.  
Michkov, Engr

"Gidrotekh i Meliorat" Vol III, No 10, pp 66, 67

Michkov designed a pile-tubing foundation for Berdsk hydraulic station in Novosibirsk Oblast. This installation was achieved with piling pipes 3 times faster and 75% less expensive than with conventional construction and has operated satisfactorily for 15 years. It proves that this design may be applied to the construction of hydraulic and hydroelec installations, and bridges.

191T72

STOYLOV, B. A., POSTNOV, S. D., BOGOSLOVSKIY, I. S., MORGUNOV, G. M., ROGALEV, T. S.,  
MICHKOV, V. A., SIDOROV, I. N., ZUBRILOV, L. YE., KAPUSTIN, N. G., DOVKA, A. S.  
Shevy, Lev Dmitriyevich, 1889-

Concerning the review by Prof. D. A. Strel'nikov, Docents B. S. Lokshin, Ya. Ye. Nekrasovskiy  
and Eng. V. A. Florov on Acad. L. D. Shevyakov's book "Fundamental theory of planning coal  
mines." Ugletkhizdat, 1950(Ugol' No. 3, 1952) Ugol' 27 No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1952, Uncl.

MANYASEK, Z. [Manasek, Z.]; MICHKO, M. [Micko, M.]; PAVLINEC, Y.  
[Pavlinec, J.]; LAZAR, M.

Modification of polypropylene fibers by the grafting of  
acrylonitrile. Khim. volok. no.3:20-24 '63. (MIRA 16:7)

l. Institut drevesiny, tsellyulozy i khimicheskikh volokon  
Slovatskoy Akademii nauk, Bratislava, Chekhoslovatskaya  
Sotsialisticheskaya Respublika.

(Textile fibers, Synthetic)  
(Polypropylene) (Acrylonitrile)

MANYASEK, Z.; BEREK, D.; MICHKO, M.; LAZAR, M.; PAVLINEC, Yu.

Formation and decomposition of hydroperoxides of atactic propylene.  
Vysokom.sod. 3 no.7:1104-1109 J1 '61. (MIRA 14:6)

1. Khimicheskiye instituty Slovenskoy akademii nauk, Bratislava.  
(Propene) (Peroxides)

LAZAR, M.; PAVLINETS, I.; MANYASEK, Z.; MICHKO, M.; BEREK, D.

Ozonization of atactic polypropylene. Vysokom. soed. 3 no. 6:943-947  
Je '61. (MIRA 14:6)

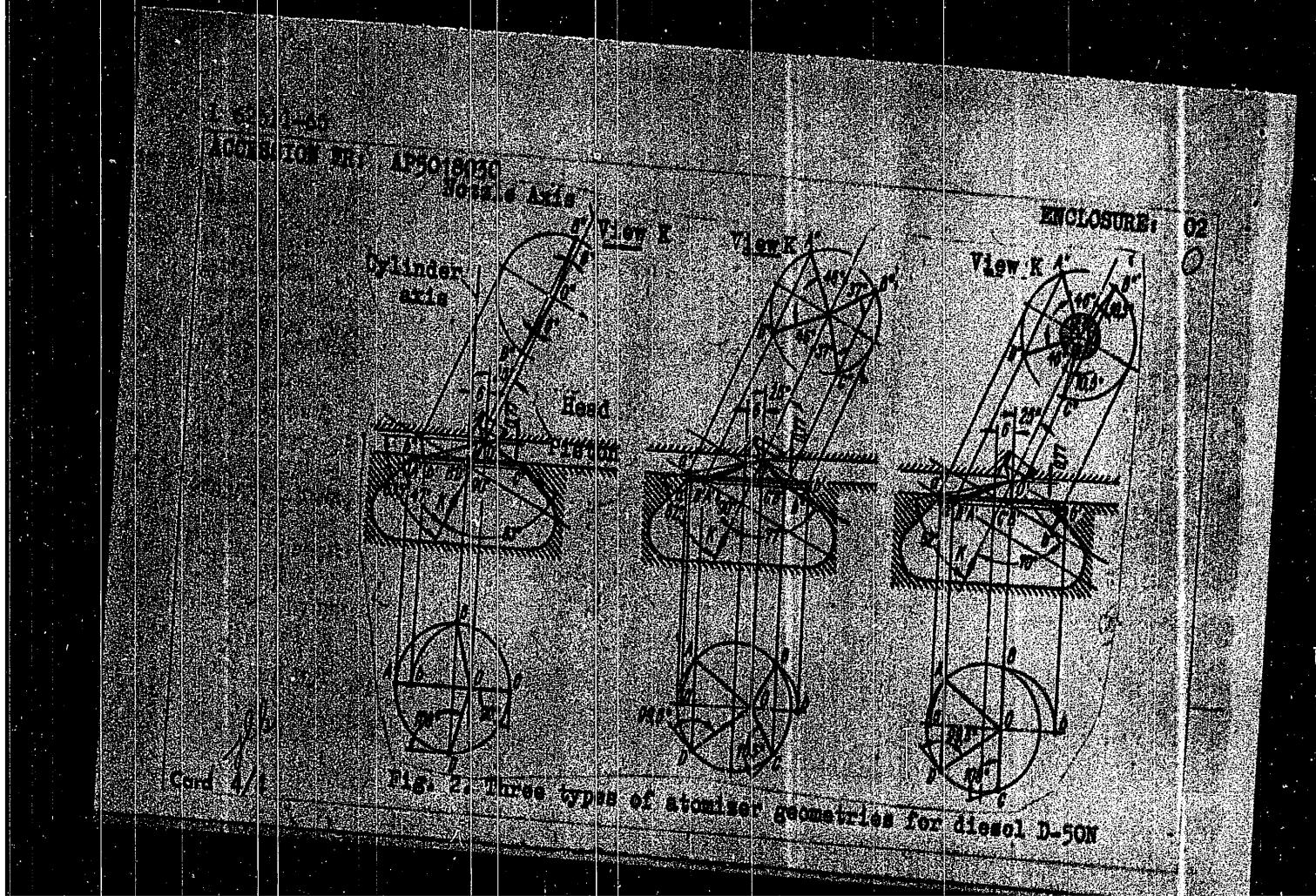
1. Khimicheskiye instituty Slovatskoy Akademii nauk, Bratislava.  
(Propene) (Ozone)

MICHKIN, I.A., inzh.; KOVYADOV, M.K., inzh.

Increasing the reliability of the work of fuel injectors.  
Trakt. i sel'khozmash, no. 5:10-12 My '64. (MIRA 17:6)

1. Gosudarstvennyy sovuznyy nauchno-issledovatel'skiy  
traktornyy institut.

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11-62-51-125  
ACQUISITION NR: 11P5078/31

*MAP* represents the resistances of the two orifices. For a  
 7430 case ( $\alpha = 0.11$  mm;  $d = 0.0761$ ;  $G = 48^{\circ}43'$ ;  $d_4 = 1.2$  mm;  $\xi_1 = 1.02$ ,  
 5244 (4/6) fuel pressure 20 kg/cm<sup>2</sup>) the flow is 15.8% smaller for the  $\alpha$  nozzle.  
 In addition better fuel injection the holes should either be made of different diam-  
 eters (as in diesel 12.7%) or, preferably, the streams should be directed to give  
 the correct fuel distribution as shown for the D-50N diesel in Fig. 2 on the  
 following page. See figures and 3 formulas.

ASSISTANT: HATT

SUPERVISOR: 03

03 REP: SOV: 002

ENCL: 0

OTHER: 000

SUB CODE: PR

Conf: 2/1

REF ID:	SR 1033800020-6
ADDRESSEES (RDR):	IP5018/50
AUTHOR:	Roman T. A. (Candidate of technical sciences)
TYPE:	Designing nozzle apertures for multi-hole atomizers
SOURCE:	Inventory 1, sc. "Informatika", no. 7, 1963, 12-13
DATE:	AGS: Diesel fuel injection, fuel injector, fuel atomizer, injector nozzle, design of nozzle sections, nozzle apertures in multi-hole atomizers for diesel engine fuel
DETAILS:	described at great length. Studies on the atomization of kerosene on diesel D-50N that showed more carbon deposits than on gasoline. It was found experimentally that a two-hole injector (see Fig. 1) has a better atomization than a four-hole one. The flow rates $Q_1$ and $Q_2$ through the two nozzles
ARMED:	Based on given continuity equations and on nozzle cross-sectional
CONT.	$Q_1 = Q_2 = \frac{V}{t} \quad \text{and} \quad Q_1 = Q_2 \left( \frac{1 - V/c}{1 + V/c} \right)$ $t = \frac{1 - V/c}{1 + V/c} \quad t = 1 + \frac{V}{c} \cdot \frac{\cos \alpha - \cos \beta}{1 + c_1}$

L 18070-63

EWD(s)-2/EWT(1)/BDS Pw-4

ACCESSION NR: AR3002960

S/0273/63/000/005/0035/0035

SOURCE: RZh. Dvigateli vnutrennego sgoraniya. Otdel'nyy vypusk, Abs. 5.39.266

AUTHOR: Michkin, I. A.

55

TITLE: Terminal phase in the fuel injection process

CITED SOURCE: Tr. Gos. soyuzn. n.-i. trakt. in-t, vyp. 149, 1962, 3-45

TOPIC TAGS: atomized fuel, fuel injection, needle setting, efficiency

TRANSLATION: The terminal phase in the injection process is analyzed in this study of the needle gap setting and of the squeezing out of atomized fuel through the needle. Atomization was obtained by means of a spring-force injection. It was found that the squeeze-out process tends to impair the mean atomization quality, the fuel consumption efficiency, and it promotes carbon deposition on the atomizer nozzle orifice. Injection details and dimensions are shown, and the importance of controlling the needle setting is stressed, as is the care required in the process of squeezing out atomized fuel into the combustion chamber.

DATE ACQ: 17 Jun 63

SUB CODE: FL

ENCL: 00

Card 1/1

ZUBIYETOV, I.P. MICHKIN, I.A.

Developing pneumatic regulators. Trakt. i sel'khozmash.  
31. no. 6:8-11 Je '61.  
(MIRA 14:6)

1. Nauchno-issledovatel'skiy avtomotornyy institut.  
(Diesel engines)

MICHKIN, I.A., inzh.

Characteristics of pin-type sprayers. Trakt. i sel'khozmash. 31  
no.1:11-14 Ja '61. (MIRA 14:1)  
(Diesel engines)

MICHKIN, I.A.; KALISH, G.G., doktor tekhn. nauk, prof., red.;  
KOVAL'SKAYA, I.F., tekhn. red.

[Vortex nozzles] Vikhrevye forsunki. Moskva, TSentr. inst.  
nauchno-tekhn. informatsii mashinostroeniia, 1961. 61 p.

(Nozzles)

(MIRA 15:7)

MICHKIN, I.A., inzh.; GRINOVICH, V.I., inzh.

Investigating pressure valves of tractor engine fuel pumps. Trakt. i  
sel'khozmash. 30 no.7:5-9 Jl'60.  
(MIRA 13:10)

1. Nauchno-issledovatel'skiy avtotraktornyj institut.  
(Tractors--Fuel systems) (Diesel engines)

MICHKIN, I.A.

Increasing the durability of fuel pump diaphragm. Avt. trakt. prom. no. 7:16-  
19 Jl '53. (MLRA 6:8)

1. Nauchno-issledovatel'skiy avtetraktornyy institut. (Fuel pumps)

IZOTOVA, T.S., MICHKASSKAYA, N.A., POPOV, V.K.

Some data on Pre-Albian reservoir rocks in the northern regions  
of Krasnodar Territory. Izv. vys. ucheb. zav.; geol. i razv.  
6 no.9847-56 S '63.

(MIRA 12-10)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo  
instituta geofizicheskikh metodov razvedki i Lvovskiy  
gosudarstvennyy universitet im. IV. Franko.

KARPENKO, N.M.; MICHKASSKAYA, N.A.

Some results of regional generalization of electric logging data.  
Geol. nefti i gaza 5 no. 6:35-40 Je '61. (MIRA 14:6)

1. Upravleniye Krasnodarneft'.  
(Electric prospecting)

MICHKAREVA, V.I., inzh.; SPEKTOR, M.D., kand. tekhn. nauk; KAYZER, A.A., inzh.  
PLAKHOTSKIY, I.A., inzh.; PUKHAREVA, L.A., inzh.

Porous unkilned fillers for lightweight concrete from pulverized  
ash of electric power plants. Stroi. mat. 10 no.11:34-35 N '64.  
(MIRA 18:1)

MICHKAREVA, V.I., inzh.

Properties of ash pellets and of concrete using them as a  
base. Sbor trud. Sverd. nauch.-issl. inst. po stroi. no.16:  
51-58 '63.  
(MIREA 17:10)

SOV/137-59-3-5224  
Study of the Mineral Composition of Sintered Pellets of Pulverized (cont.)

oxidation contains more of the liquid phase, and the strengthening of the pellets is attained through binding with slag. The oxidized zone of fluxed pellets consists of hematite,  $\beta \cdot 2\text{CaO} \cdot \text{SiO}_2$  solid solution, hedenbergite, and Ca ferrites. All the lime enters into a chemical reaction with the concentrate.

A. P

Card 2/2

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 42 (USSR) SOV/137-59-3-5224

AUTHORS: Michkareva, V. I., Babushkin, N. M.

TITLE: Study of the Mineral Composition of Sintered Pellets of Pulverized Concentrates From the Kursk Magnetic Anomaly (Izuchenie mineral-nogo sostava obozhzhennykh okatyshей iz tonkoizmechennykh kont-sentratorov KMA)

PERIODICAL: Tr. n.-i. proyektn. in-ta "Uralmekhanobr," 1958, Nr 2, pp 56-62

ABSTRACT: The concentrate consists mainly of magnetite (77.6%) and quartz (16.85%) with insignificant amounts of impurities. The concentrate is pulverized to 70% of 0.07-mm undersize. In the preparation of microsections the pellets were hardened with a solution of bakelite in acetone. Microsections of both fluxed and unfluxed pellets sintered in a Tammann furnace at 1150, 1200, and 1250°C and in the sintering pan were investigated. Microscopic examination of the microsections showed that there are three zones in the pellets: The outer, oxidized, hematite zone 1 - 1.5 m (sic!) deep; the transitional, partly oxidized zone 1.5 - 2 m deep, and the inner, unoxidized zone. The oxidized zone contains but little of the fused phase, whereas the zone of partial

SEKISOV, G.V.; MICHKAREV, V.P.

Calculating losses and depletions in the selective strip  
mining of complex nonferrous and rare metal ores. Izv. AN  
Kir. SSR. Ser. est. i tekhn. nauk 3 no.3:25-45 '61. (MIRA 15:3)  
(Mine examination) (Nonferrous metals)

STOICA, Gh., dr.; SUTEANU, St., dr.; CIOBANU, V., dr.; STROESCU, Ortansa, dr.; DRAGOI, Tatiana, dr.; MICHIU, Valeria, asist.; SUSNEA, Doina, asist.

Changes in several blood proteins in rheumatoid polyarthritis.  
(Immunoelectrophoretic study). Med. intern. (Bucur.) 17 no.9:  
1093-1101 S '65.

1. Lucrare efectuata in Institutul de medicina interna al Academiei Republicii Socialiste Romania si Ministerul Sanatatii si Prevederilor Sociale (director: acad. N. Gh. Lupu).

MICHITOVICI, F.

The explanation of certain successful achievements.

P. 2, (Constructorul. Vol. 9, no. 395, Aug. 1957, Bucuresti, Rumania)

Monthly Index of East European Accessions (FFAI) Lc. Vol. 7, no. 2,  
February 1958

GOGALA, Matjaz; MICHELI, Stefan

*Monographic and alpha-<sup>14</sup>C-radiograms in Insects.* Biol Inst Ljubljana.

J. Biologic Institute of the University of Ljubljana, Ljubljana.  
Submitted July 31, 1964.

MICIELI, Stefan

The 2d Congress of the Biologists of Yugoslavia. Biol vest  
no.10:141-142 '62.

l. Urednik, "Bioloski vestnik".

GOGALA, Matjaz; MICIELI, Stefan

Seasonal change of colors in some species of Heteroptera.  
Biol vest no.10:33-44 '62.

1. Bioloski institut Univerze v Ljubljani. 2. Urednik,  
"Bioloski vestnik" (for Michieli).

GOGALA, M.; MICIELI, S.

Color of Heteroptera. Bul sc Young 7 no.3:61-62 Je '62.

1. Bioloski institut Univerze, Ljubljana.

MICHELI, S.

A contribution to the knowledge of form perception in insects. Bul  
sc Jug 5 no.3:72-73 J1 '60.  
(EEAI 10:5)

l. Biologisches Institut, Akademie, Ljubljana.  
(Insects)

YUGOSLAVIA / General and Specialized Zoology. Insects.  
Systematics and Fauna.

Abs Jour : Ref Zhur ~ Biol., No 18, 1958, No. 82844

Author : Carnelutti, J.; Michieli, S.

Inst : Not given

Title : Supplements to the Lepidopterous Fauna

Orig Pub : Biol. vest., 1955, No 4, 43-55

Abstract : No abstract given

Card 1/1

YUGOSLAVIA / General and Special Zoology. Insects.  
Systematics and Faunistics. P

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54247.

Author : Michielli, Stefan.

Inst : Croatian Nature Society.

Title : The Appearance of Southern Butterfly Species in  
Ljubljana and in the Adjacent Areas.

Orig Pub: Glasnik biol. sek. Hrvatsko prirodosl. drustvo,  
1953 (1955), Ser. 2B, 7m 250-251.

Abstract: Since 1925, the appearance in Ljubljana of typical  
South European butterfly species has been noted.  
These species are new to this area and until then  
were encountered only in Istria and in Dalmatia.  
They are: Argynnis pandora, Lampides boeticus,  
Daphnis nerii, Leucania scirpi and a number of  
other species. The majority of these butterflies

Card 1/2

PIETROW, Borys MICHEWICZ, Ryszard

Silver's operation in hallux valgus. Chir. narz. ruchu 24 no. 2:  
139-141 1959.

1. Z Oddzialu Ortopedyczno-Urazowego II Centralnego Szpitala Klin-  
icznego Wojskowej Akademii Medycznej Kierownik naukowy: prof. dr M.  
Garlicki Adres autorow: Warszawa, ul. Graniczna 2 m. 36.  
(HALLUX, surgery,  
valgus, Silver's operation (Pol))

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MICHEV, Veselin, inzh.

A practical method for regulating the density of circular knitting machines. Tekstil prom 13 no.21-23 '64.

MICHEV, V. S.

MICHEV, V. S.: "Investigation of the eutectoid transformation in alloyed steels." Min Higher Education USSR. Ural Polytechnic Inst imeni S. M. Kirov. Chair of Metal Science and Heat-Treating. Sverdlovsk, 1956. (Dissertation for the Degree of Candidate in Technical Science).

Source: Knizhnaya letopis' No. 28 1956 Moscow

MICHEV, V., dots. kand. na tekh. nauki.; VITANOV, D., inzh.

Quality of the Bulgarian low-carbon steels for the manufacture  
of wire and binding materials. Min delo 18 no.3:22-25 '63.

KUPENOV, N.; GOTEV, N.; SYMNALIYEV, M. [Symnaliev, M.]; TOMOV, A.; KHRISTOV, IV.; BAYEV, V. [Baev, V.]; DOBREVA, Yev. [Dobreva, Ev.]; MICHEV, T.; CHEKHLAROV, V.

Natural tularemia focus in Bulgaria. Zhur. mikrobiol., epid. i immun. 41 no.4:124-131 Ap '64. (MIRA 18:4)

1. Kafedra voyennoy epidemiologii i gigiyeny Sofiyskogo vysshego voyenno-meditsinskogo instituta, Bolgariya.

MICHEV, T.

Two new sites of Hydroprogne tschegrava tschegrava Lepechin  
in Bulgaria. Izv Zool inst BAN no.12:239-240 '62.

MICHEV, P. [Nishev, P.]

Apropos of the treatment of hypospadias. Folia med. (Plana) 6 no.2:122-127 '64

1. Institut de Hautes Etudes Medicale "I.P. Pavlov", Bulgarie.  
Chaire de Chirurgie de Faculte et d'Urologie (Directeur:  
prof. V.Dobrev [I.Dobrev]).

MICHEV, P.

"Successes in increasing the wildlife abundance in the Eastern Rhodope Mountains."

GORSKO STOPLANSTVO, Sofiia, Bulgaria, Vol. 15, no. 4, Apr. 1959.

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Unclassified

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MICHEV, N.

Microregion of Elena. Izv Geog inst BAN 7:201-228 '63.

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VELEV, V.: MICHEV, N.

Economic development and problems of the Black Sea seacoast  
in the Strandzha region with a view to the construction of  
watering places. Izv Geog inst BAN 6:157-184 '62.

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Yemen. p. 18.  
(Geografiia Vol. 7, no.1, 1957. Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol.6, no.6, June 1957. Uncl.

MICHEV, N.

MICHEV, N. Turnovo. p.4.

Vol. 6,no. 6, 1956, GEOGRAFIIA, Sofiya, Bulgaria.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10,  
Oct. 1956.

MICHEV, Micho, dots, inzh.; VUCHKOV, Pavel, st.asistent, k.t.n.;  
STANEV, Ivan, k.t.n., st.asistent.

Some basic problems in the organization of land exploitation at the consolidated cooperative farms. Godisznik Inzh stroit inst 14 no.1:291-324 '62. [publ.'63]

MICHEV, Micho; STANEV, Ivan

Determination of sites for farmyards and farms in  
cooperative and state farms by analytic methode.  
Selskostop nauka 2 no.5/6:505-514 '63.

MICHEV, Mikhail

Territorial distribution of water power resources in China, and  
their utilization. Godishnik biol 56 no.3:309-334 '61-'62  
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MICHEV, Mikhail

Some factors and trends in the development and territorial distribution of productive forces in China. Godishnik biol 55 no.3:268-291 '60/'61 [publ. '62].

MICHEV, Mikhail

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production forces in the farming of China. Godishnik biol 53  
no.3:213-260 '58/'59 [publ. '60].

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MICHEV, M.

Impressions of Aligarh and Agra in India. p. 14.  
(Geografiia, Vol. 7, no. 1, 1957. Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol.6, no.6, June 1957. Uncl.

MICHEV, M.

City of Mezdra; economic and geographical study, contribution to the populated geography of Bulgaria. p. 3.  
(Priroda I Znanie, Vol. 49, no. 3, 1954/55 (published 1956)).

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

MICHEV, M.

A few days in Berlaspot; a record of travel. p. 1.

NEGRATIA VOL. 6, no. 10, 1979

Sofia, Bulgaria

SO. 1425 MICHEV AGBABIAN DNDP VOL. 5, NO. 1 JULY 1979

MICHEV, Dimitur

Planning and analysis of labor productivity in industrial enterprises based on factor criteria. Trud tseni 5 no.5: 70-78 '63.